

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001418**Date Inspected:** 29-Oct-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) OaK**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies, OBG 7AE, OBG 6CE, Lift 2**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies

Base Metal surfaces of Splice Plates and Shit Fabrication Angle Iron were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Profile amplitude was 73, 78, 80 um.Fabrication was found to be non compliant due to workmanship issues with end terminations.

OBG 7AE

Joint inspection for Dry Film Thickness (DFT) verification was performed Caltrans QA Lumley observed ZPMC personnel and ABF personnel check internal undercoated surfaces prior to transport from the paint shop.

OBG 6CE

External Undercoated surfaces were in process of verification and amendment of low DFT areas prior to application of "mist" coat Interfine 979. Mist coat was applied to areas which did not require additional undercoat film build of the East Side Plate, the Bottom Plate and the FL-3 Side Plate.

Lift 2 East

External repairs of the Cross Beam Bottom Plate were inspected and found to be in general compliance with the contract documents and application of "Mist" coat of Interfine 979 occurred.

Lift 2 West

ZPMC requested inspection of Counterweight assemblies and Bolted connections as well as Suspender Bracket assemblies and Bolted Connections prior to application of "Mist" coat 979. Caltrans QA Lumley informed ABF

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QA Zhou Qunsong of outstanding incident report relative to connection assemblies of the Suspender Brackets. Zhou Qunsong informed ZPMC not to apply Interfine 979 until the outstanding incident report was amended. OBG 6AW

Internal Base Metal surfaces were pre-abrasive blasted for VT inspection and Identification of Fabrication defects and damages to base metal. Areas affected were typically ground which exhibited gouges, burrs, finns, and base metal defects and sharp edges. Re-blasting and re-inspection was undertaken until SSPC SP-10 was achieved and Interzinc 22 was applied from Panel Points 39-40 and including end weld seam.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley inquired with ABF QA Bill Oak as to why no Notice of Inspections were sent by ZPMC for any work/repairs associated with Lift 4 East since loaded upon the ship.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 9858) 699-9549, who represents the Office of Structural Materials for your project.

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| Inspected By: | Lumley,James | Quality Assurance Inspector |
| Reviewed By: | Carreon,Albert | QA Reviewer |
